

707.09 Steel Structural Plate Pipe, Pipe Arches, Box Culverts, Fasteners, and Arches Plates, bolts, nuts and other accessories shall conform to the requirements of AASHTO M167/M167M and the following additional requirements:

- a. All shop welding shall meet the requirements of the latest edition of AWS D1.1, Structural Welding Code - Steel.
- b. Annually, the fabricator shall have quality control tests performed on uncoated random samples of the lightest and heaviest thickness plates produced by welding. The sampling and testing shall be done by a recognized independent testing agency and copies of the test reports, including all welding parameters, shall be submitted to the Engineer on an annual basis.
- c. The Engineer reserves the right to conduct unannounced inspections of the fabricators facilities and to take random samples of welded plates representative of gages supplied to the Department.
- d. No field welding will be allowed.

707.10 Aluminum Coated (Type 2) Corrugated Steel Pipe This pipe shall conform to the requirements of AASHTO M36/M36M using steel sheet conforming to AASHTO M274.

707.11 Zinc - Coated (Galvanized) Corrugated Steel Pipe This pipe shall conform to the requirements of AASHTO M36/M36M using steel sheet conforming to AASHTO M218.

707.14 Aluminum Alloy Structural Plate Pipe, Pipe Arches, Box Culverts, Fasteners and Arches Plates for this pipe shall conform to the requirements of AASHTO M219/M219M (ASTM B746/B746M). Bolts and nuts shall conform to the requirements of ASTM F468M alloy 6061-T6 and F467 alloy 6061-T6.

## SECTION 708 - PAINTS AND PRESERVATIVES

708.01 Exterior Ready Mixed Paint Exterior paint for wood structures should be a good quality house paint approved by the Resident.

708.03 Pavement Marking Paint Paint for final and temporary pavement marking shall meet the requirements of AASHTO M248. Either Type N, regular dry traffic paint or Type

F, fast dry traffic paint may be used.

Glass beads shall conform to the requirements of AASHTO M247, Type I.

708.04 Tree Wound Paint Tree wound paint shall be an approved waterproof, adhesive, and elastic paint, manufactured and customarily used for painting cuts on trees. It shall contain an antiseptic ingredient and be free from kerosene, creosote, coal tar, or any other injurious material.

708.05 Timber Preservative Timber preservatives shall conform to the requirements of AASHTO M133.

## SECTION 709 - REINFORCING STEEL AND WELDED STEEL WIRE FABRIC

709.01 Reinforcing Steel Reinforcing steel, both plain and epoxy coated, shall be deformed bars conforming to the requirements of AASHTO M31/M31M (ASTM A615/A615M). Bars shall be Grade 420 [Grade 60] unless otherwise specified on the plans. Epoxy coated reinforcing steel shall also conform to the requirements of AASHTO M284/M284M (ASTM A775/A775M). The requirements of AASHTO M284/M284M (ASTM A775/A775M), Sections 5.2.1, 5.3, 5.4, and 15.1 shall be mandatory.

Fabricated deformed steel bar mats shall conform to the requirements of AASHTO M54/M54M (ASTM A184/A184M).

709.02 Welded Steel Wire Fabric Welded steel wire fabric shall meet the requirements of AASHTO M55 (ASTM A185) Steel Welded Wire Fabric, Plain, for Concrete Reinforcement or AASHTO M221 (ASTM A497) Steel Welded Wire Fabric, Deformed, for Concrete Reinforcement as specified.

709.03 Steel Strand Prestressing strand shall meet the requirements of AASHTO M203M/M203 (ASTM A416/A416M) Steel Strand, Uncoated Seven-Wire for Concrete Reinforcement.

Lateral post-tensioned strands for pre-cast/post-tensioned concrete products shall be 12mm [½ inch] AASHTO M203M/M203 (ASTM A416/A416M) strand with a corrosion inhibitive coating covered with an extruded polypropylene sheath.